



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/16/2015

Invoice # 35108

API#

Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: gooding 38n-a6hz

County: Weld

State: Colorado

Sec: 7

Twp: 1n

Range: 67w

Consultant: don

Rig Name &amp; Number: major 42

Distance To Location: 25

Units On Location: 4030-3203/4024-3203

Time Requested: 830 am

Time Arrived On Location: 800 am

Time Left Location:

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,558  
Total Depth (ft) : 1576  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 47  
Conductor ID : 16  
Shoe Joint Length (ft) : 40  
Landing Joint (ft) : 8

Max Rate:

Max Pressure:

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.49  
Gallons Per Sack: 7.48  
% Excess: 10%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 17.36 cuft  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 41.88 cuft  
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 812.32 cuft  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 871.55 cuft  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 155.22 bbls  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 585 sk  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 104.17 bbls  
(Sacks Needed) X (Gallons Per Sack) ÷ 42

**Displacement:** 117.97 bbls  
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

## Pressure of cement in annulus

**Hydrostatic Pressure:** 1149.34 PSI

## Pressure of the fluids inside casing

**Displacement:** 654.53 psi

**Shoe Joint:** 29.51 psi

**Total** 684.04 psi

**Differential Pressure:** 465.30 psi

**Collapse PSI:** 2020.00 psi

**Burst PSI:** 3520.00 psi

**Total Water Needed:** 262.15 bbls

X

Authorization To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



**Bison Oil Well Cementing  
Single Cement Surface Pipe**

Customer  
Well Name

Anadarko Petroleum Corporation  
gooding 38n-a6hz

INVOICE #  
LOCATION  
FOREMAN  
Date

35108  
Weld  
kirk kallhoff  
1/16/2015

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**DESCRIPTION OF JOB EVENTS**

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU	1107a	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE	1030a	0	1207p	10	0			0			0			0		
Drop Plug	1123a	10	1210p	50	10			10			10			10		
1207 pm		20	1212p	50	20			20			20			20		
		30	1214p	140	30			30			30			30		
		40	1216p	200	40			40			40			40		
M & P		50	1218p	280	50			50			50			50		
Time	Sacks	60	1220p	360	60			60			60			60		
1130 am	585	70	1222p	430	70			70			70			70		
1204 pm stop		80	1224p	460	80			80			80			80		
		90	1226p	510	90			90			90			90		
		100	1228p	500	100			100			100			100		
		110	1230p	500	110			110			110			110		
% Excess	10%	120			120			120			120			120		
Mixed bbls	104.2	130			130			130			130			130		
Total Sacks	585	140			140			140			140			140		
bbl Returns	40	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 1233 pm 1500 psi

floats held

X   
Work Preformed

X  
Title

X 1-16-15  
Date



# M/D TOTCO 2000 SERIES

